

List of Maps,

AND OTHER SCHOOL REQUISITES

For Sale to High



Apparatus, Globes,

OF CANADIAN MANUFACTURE.

And Public Schools,

AT THE

Ontario Educational Depository.

PREFATORY NOTE.

It is gratifying to state that the chief part of the Maps, Charts and Apparatus which is now supplied to the Public Schools of Ontario by the Education Department, has been manufactured in Toronto, under the direction of this Department.

This branch of home industry has been gradually introduced and carefully fostered, and the work is generally not only equal in point of excellence to the English and American makers, but in many cases it is quite superior, and at the same time cheaper. To the attainment of this most desirable object has the attention of the Department been most sedulously directed; while it has also sought to suggest such improvements and alterations as appear desirable and practicable; and

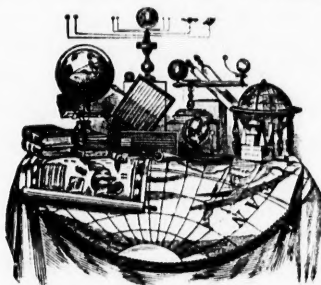
where none were necessary, it was deemed by the Department essential that in point of finish and adaptation to the objects in view, the article of Canadian manufacture should compare favourably with its English or American prototype.

Specimens of the articles manufactured in Toronto have been exhibited at the several Provincial Fairs, and excited a good deal of attention and commendation. The Apparatus manufactured includes maps, map cases, and rotary stands; brass spheres, tellurians, globes, geometrical figures and diagrams; mechanical powers, levers, air pumps, electrical machines and various other articles of brass work, illustrative of the different branches of natural philosophy.



COLLISION BALLS. FIG. 1.

CONICAL BLACKBOARD BRUSH. FIG. 2.



SPECIMEN SCHOOL APPARATUS OF CANADIAN MANUFACTURE. FIG. 3.



ELECTRICAL BELL. FIG. 4.



FLAT BLACKBOARD BRUSH. FIG. 5.

TERMS: STRICTLY CASH.

In transmitting an order for any of the articles on sale at the Depository, care must be taken to accompany it with a remittance and also to give directions as to the parties to whom the parcels should be sent. See Departmental Notices below.
The sole object of the Department is to provide facilities for supplying the Public Schools of Ontario with approved Books, Maps and Apparatus at Cost. When the article ordered is not in stock, the nearest selection to it is made, subject, however, to the approval of the Trustees, &c. Books, Maps and Apparatus are packed free of expense, with the exception of a small charge for Packing Boxes, by an experienced packer, but the Department will not be responsible for damage or breakage; all apparatus is sent at purchaser's risk. In case of damage or breakage, notice must be sent to the Express Company or Forwarders, not to this Department.

DEPARTMENTAL NOTICE.

PUBLIC LIBRARY BOOKS, MAPS, CHARTS, APPARATUS, AND SCHOOL PRIZE BOOKS.

The Chief Superintendent will add *one hundred per cent.* to any sum or sums *not less than five dollars*, transmitted to the Department by Municipal and School Corporations, on behalf of the High and Public Schools; and forward Public Library Books, Prize Books, Maps, Apparatus, Charts, and Diagrams, to the value of the amount thus augmented, upon receiving a list of the articles required. In all cases it will be necessary for any person acting on behalf of the Municipal or Trustee Corporation, to enclose or present a written authority to do so, verified by the Corporate Seal of the Corporation. A selection of Maps, Apparatus, Library and Prize Books, &c., to be sent, can always be made by the Department, when so desired.

See Catalogues and Forms of Application furnished to School authorities on their application.

ASSORTED PRIZE BOOKS IN PACKAGES.

Selected by the Department from the Catalogue for High and Public Schools, in assorted packages as follows:—

Package No. 1. Books and Cards, 5ets. to 70ets. each.....	\$10	Package No. 11. Books and Cards, 20ets. to \$3.25 each.....	\$60
" No. 2. Ditto ditto 5ets. to \$1.00 each.....	\$16	" No. 12. Ditto ditto 20ets. to \$3.50 each.....	\$66
" No. 3. Ditto ditto 5ets. to \$1.25 each.....	\$20	" No. 13. Ditto ditto 25ets. to \$3.75 each.....	\$70
" No. 4. Ditto ditto 10ets. to \$1.50 each.....	\$26	" No. 14. Ditto ditto 25ets. to \$4.00 each.....	\$76
" No. 5. Ditto ditto 10ets. to \$1.75 each.....	\$30	" No. 15. Ditto ditto 25ets. to \$4.25 each.....	\$80
" No. 6. Ditto ditto 10ets. to \$2.00 each.....	\$36	" No. 16. Ditto ditto 30ets. to \$4.50 each.....	\$86
" No. 7. Ditto ditto 15ets. to \$2.25 each.....	\$40	" No. 17. Ditto ditto 30ets. to \$4.75 each.....	\$90
" No. 8. Ditto ditto 15ets. to \$2.50 each.....	\$46	" No. 18. Ditto ditto 30ets. to \$5.00 each.....	\$96
" No. 9. Ditto ditto 15ets. to \$2.75 each.....	\$50	" No. 19. Ditto ditto 35ets. to \$5.25 each.....	\$100
" No. 10. Ditto ditto 20ets. to \$3.00 each.....	\$56	" No. 20. Ditto ditto 35ets. to \$5.50 each.....	\$106

See Special Prices in handsomely bound Books, singly at from \$1.05 to \$5.50. In sets of from two to six volumes of Standard Literature, at from \$3.00 to \$10.00 per set. Also, Microscopes, Drawing Instruments, Drawing Books, Classical Texts, Atlases, Dictionaries, Small Magic Lanterns, Magnets, Compasses, Cubes, Cones, Blocks, Prisms, Small Globes, &c., &c.

* * At certain seasons of the year there being a great demand for prizes, Trustees are requested to send in their orders at as early a date as possible, so as to ensure the due despatch of their parcels in time for the examinations, and thus prevent disappointment.

I. MAPS, &c.

Mounted on Canvas and Rollers, Coloured and Varnished.

I.—DEPARTMENTAL MAPS.

These maps have been revised and constructed under the direction of the Education Department, and published in Toronto expressly for the High and Public Schools of Ontario.

World on a globular projection, size 4 feet by 6 feet eight inches.....	\$4 00
Eastern and Western Hemispheres, (same Map as above) each.....	2 25
Europe, 5 feet 6 inches by 4 feet 4 inches.....	3 00
Europe, 4 feet 2 inches by 3 feet 4 inches.....	2 50
Asia, 5 feet 6 inches by 4 feet 4 inches.....	3 00
Asia, 4 feet 2 inches by 3 feet 4 inches.....	2 50
Africa, 4 feet 4 inches by 5 feet 6 inches.....	3 00
Africa, 3 feet 6 inches by 4 feet 2 inches.....	2 50

America, 4 feet 4 inches by 5 feet 6 inches.....	\$3 00
America, 3 feet 6 inches by 4 feet 2 inches.....	2 50
Dominion Map of British North America—including Ontario, Quebec, Nova Scotia, New Brunswick, Prince Edward Island, Newfoundland, British Columbia, Vancouver, Manitoba, &c., size 3 feet 6 inches by 7 feet 8 inches.....	7 00
United States, 3 feet 6 inches by 5 feet 2 inches.....	4 00
British Isles, 5 feet 6 inches by 4 feet 4 inches.....	3 50
Palestine, including (1) Bible Lands and part of the Ancient World (2) Travels of the Patriarchs from the East to Canaan (3) Route of the Israelites from Egypt to Canaan (4) Canaan divided among the 12 Tribes (5) Palestine, or the Holy Land (6) Ancient Jerusalem (7) Travels of the Apostle Paul, 5 feet 6 inches by 4 feet 4 inches.....	4 00
or, divided in four separate maps, each.....	1 25

Two and a-half Banns, March, 1873.)

II. IRISH NATIONAL MAPS.

1. Large Modern Maps.

World, outline (globular)	84 00	Scotland	85 00
World, outline (Mercator's)	5 00	Pacific Ocean	3 00
England	3 00	Australia	3 00
Ireland	3 00	India	3 00

2. Small Modern Maps.

World (globular)	82 50	England	81 50
World (Mercator's)	2 50	Ireland	1 50
Europe	1 50	Scotland	1 50
Asia	1 50	B. Isles	1 50
Africa	1 50	Australia	1 50
America	1 50	Pacific Ocean	1 50
North America	1 50	Palestine	1 50
South America	1 50	Scripture World	1 50

3. Large Ancient Maps.

Orbis Veterinus Notus	85 00	Asia Minor Antiqua	81 75
Ancient or Scripture World	2 00	Italia Antiqua	2 00
Terra Sancta	1 75	Grecia Antiqua	2 00

III. W. & K. JOHNSTON'S MAPS.

1. Large Modern Maps.

Outline Chart of the World	83 00	Italy	82 50
Skeleton Map of the World	2 00	India	2 50
Commercial World (Mercator's)	12 00	Spain and Portugal	2 50
World (Mercator's)	2 50	Australia	2 50
General Europe	8 00	Pacific Ocean	2 50
Central Europe	2 50	New Zealand	2 50
France	2 50		

2. Small Modern Maps.

Eastern Hemisphere	81 50	United States	81 50
Western Hemisphere	1 50	British Isles	1 50
World (Mercator's)	1 50	England	1 50
Europe	1 50	Ireland	1 50
Asia	1 50	Scotland	1 50
Africa	1 50	Palestine	1 50
America	1 50		

3. Large Ancient Maps.

Orbis Veterinus Notus	82 50	Italia Antiqua	82 50
Orbis Romanus	2 50	Asia Minor Antiqua	2 50
Grecia Antiqua	2 50		

IV. W. & R. CHAMBERS' MAPS.

World, with Diagrams	81 00	America (South)	83 00
Europe	3 00	England	3 00
Asia	3 00	Ireland	3 00
Africa	3 00	Scotland	3 00
America (North)	3 00	Palestine	3 00

*These Maps are chiefly outline, and have the names on them very small.

V. LONDON CHRISTIAN KNOWLEDGE SOCIETY'S MAPS.

Europe	83 00	Scotland	81 50
Asia	3 00	Ireland	1 50
North America	3 00	The Assyrian and other Empires	1 50
South America	2 00	Holy Land (New Testament)	2 00
England and Wales	3 50	Holy Land (Old Testament)	2 00

VI. DAY AND SON'S MAPS.

Orthographic Projection of the World of the Antipodes	86 00
World	86 00
American Sub-marine Chart	1 10

VII. PHILLIPS' SCHOOL ROOM MAPS.

1. Large Modern Maps.

The World in Hemispheres	83 25	South America	83 00
Europe (Physical)	3 00	Australia	3 00
Europe (Mercator's)	4 00	England	3 00
Asia	3 00	Ireland	3 00
Africa	3 00	Scotland	3 00
North America	3 00	British Isles	4 00

2. Small Maps (Ancient and Modern.)

Eastern Hemisphere	81 50	Ireland	81 50
Western Hemisphere	1 50	Scotland	1 50
Europe	1 50	Australia	1 50
Asia	1 50	Palestine	1 50
North America	1 50	Classical, Historical and Scriptural Maps, illustrating the	
South America	1 50	Ancient Classics, Historians and Poets, each	1 00
England	1 50		

VIII. VARTY'S MAPS.

Physical Europe	83 50	Plan of Jerusalem	81 25
Hindustan	1 25	Chart of our Lord's Life and Ministry	3 75
Acts of the Apostles	1 25	Palmer's Ancient Palestine	2 50

Outline Maps.

World	81 75	England	81 00
Europe	1 00	Ireland	1 00
Asia	1 00	Scotland	1 00
Africa	1 00	Palestine	1 00
America	1 00	Pilgrim's S. America and Africa	3 50

IX. WHYTE'S MAPS.

Southern Europe	83 75	Hindustan	81 50
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X. GUYOT'S MAPS.

Mural North America	86 50	Geographical Elements	86 50
Mural South America	6 50		

XI. MISCELLANEOUS PHYSICAL MAPS.

Johnston's Physical Globe	82 50	Smith's Mountains and Rivers	81 50
Johnston's Physical Europe	2 50	Smith's Pictorial Geography	3 00
Johnston's Physical Asia	2 50	Reynold's Geographical Diagrams	4 00
Johnston's Physical Africa	2 50	Reynold's World (Climatology)	2 00
Johnston's Physical America	2 50	Reynold's River Systems, &c.	2 00
Johnston's Geographical Terms	1 50	Reynold's Mountain Chains, &c.	2 00
C. K. See's World (Climatology)	1 50	Reynold's Ascending Regions	1 50
C. K. See's Physical Geography	2 25	Reynold's View of Nature in all Climates	1 50
Smith's Principal Rivers	1 50	Reynold's Geognostic Profiles, Atlas form	1 25
Smith's Principal Mountains	1 50		

II. CANADIAN ROTARY MAP STANDS AND CASES.

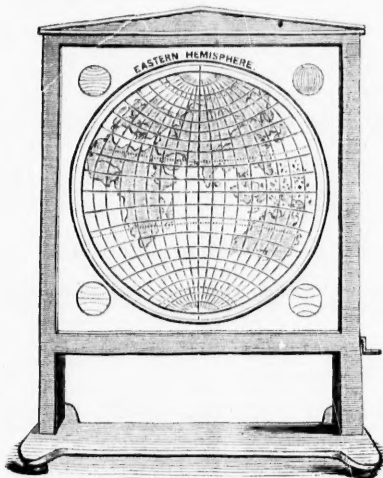
The Maps measure 4 feet 2 inches by 3 feet 6 inches; the stand is 6 feet 9 inches high by 4 feet 8 inches broad. Price \$36.

4. Large Rotary Map Stand—Canada Series—No. II.

(Ten Maps, mounted the same as the preceding.)

France	India	Italia Antiqua
Spain and Portugal	Mercator's World	Grecia Antiqua
Central Europe	Orbis Romanus	Australia
Italy		

The Maps measure 4 feet 2 inches by 3 feet 6 inches; the stand is 6 feet 9 inches high by 4 feet 8 inches broad. Price \$36, or for the two stands \$71.



CANADIAN ROTARY MAP STAND. FIG. 6.

1. Canadian Rotary Map Stand—National Series—No. I.

The stand is mounted on castors, and contains nine coloured maps on a continuous web of cloth, which revolves vertically, over rollers, by turning the handle at the side, so that the maps are exhibited in rotation. An outside cover of oak paper contains the following list of maps:—

United States.	Australia.	Orbis Veterinus Notus.
Europe.	Pacific Ocean.	Grecia Antiqua.
Asia.	Scripture World.	Italia Antiqua.

The Maps measure 5 feet 5 inches by 4 feet 4 inches. The stand is 6 feet 10 inches high by 6 feet broad, with blackboard behind for arithmetic or diagrams. It can be taken to pieces, packed, and sent with safety to any part of the country. Price \$35.

2. National Series No. II.

(This is mounted in the same style as No. 1.)

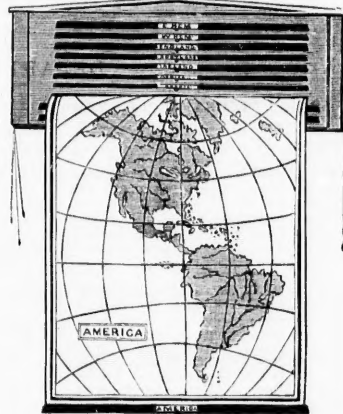
Eastern Hemisphere.	England.	India.
Western Hemisphere.	Ireland.	Palestine.
Africa.	Scotland.	Asia Minor.

The Maps measure 5 feet 6 inches by 4 feet 4 inches; the stand is 8 feet 4 inches by 4 feet 8 inches broad. Price \$38, or for the two stands \$72.

3. Large Rotary Map Stand—Canada Series—No. I.

(Ten Maps mounted same as the National Series.)

Eastern Hemisphere.	Africa.	Orbis Veterinus Notus.
Western Hemisphere.	America.	Canada and Palestine.
Europe.	British Isles (national).	(national).
Asia.	Physical Europe.	Or some other Maps.



MAP IN CASE. FIG. 7.

5. Small Rotary Map Stand—Johnston's Series—No. I.

Eastern Hemisphere.	Africa.	Ireland.
Western Hemisphere.	America.	Scotland.
Europe.	England.	Canada and Palestine.
Asia.		

Or some other Maps.

The Maps measure 2 feet 9 inches by 2 feet 3 inches; the stand is 6 feet high by 3 feet 2 inches broad. Price \$25.

6. Set of Large Maps in Case—Canada Series—No. I.

The case for hanging on the wall contains 10 Coloured Maps on Cloth and Rollers, and is so constructed that any Map can be drawn down as required, and pulled up again by the cords at the side.

Eastern Hemisphere.	Africa.	Orbis Veterinus Notus.
Western Hemisphere.	America.	Canada and Palestine.
Europe.	British Isles (national).	Or some other Maps.
Asia.	Physical Europe.	

The Maps measure 4 feet 2 inches by 4 feet 6 inches; the case is 4 feet 8 inches long by 1 foot 6 inches high; and, as it is only 4 inches thick, it projects very little from the wall. It can be packed and sent with safety to any part of the country. Price \$25.

7. Set of Large Maps in Case—Canada Series—No. II.

(Ten Maps mounted same case as No. I.)

France.	India.	Italy, Antiqua.
Spain.	Morocco.	Greece, Antiqua.
Central Europe.	Orbis Romanus.	Australia.
Italy.		

The Maps measure 4 feet 2 inches by 3 feet 6 inches; the case is 4 feet 2 inches long by 1 foot 6 inches high. Price \$20.

8. Set of Small Maps in Case—Johnston's Series.

Eastern Hemisphere.	Africa.	Ireland.
Western Hemisphere.	America.	Scotland.
Europe.	England.	Palestine.
Asia.		

Size of the Maps, 33 by 27 inches. Size of the case, 3 feet 3 inches by 1 foot 6 inches. Price \$16. Single Maps \$1.50 each.

III. CHRONOLOGICAL AND GENEALOGICAL CHARTS, &c.

Mounted on Canvas and Rollers.

Fishes' Ancient History, with Hand Book.	\$1.50	Gall and Inglis' Sovereigns of Great Britain.	\$1.75
Morrison's Chart of Ancient History.	2.00	Taylor's Sovereigns of England.	1.50
Reynolds' Universal History, or Stream of Time.	1.30	Smith's Kings and Queens of England.	1.80
Smith's Stream of Time.	3.50	Reynolds' Chart of the Sovereigns of England.	1.30
Robertson's Contemporary Dates.	.25	Majors' Royal Family of Great Britain.	1.30
Nasmith's Chronometrical History of England.	9.00	Union Jack and Royal Standard explained.	1.25
Gall and Inglis' Chrono-Genological British Sovereigns.	1.00	Calendar of the XIX. Century.	1.00

IV. MODERN GLOBES.



GLOBE WITH LOW STAND. FIG. 8.



GLOBE WITH HIGH STAND. FIG. 9.



SOLAR TELLURIC GLOBE. FIG. 10.

I. Globes with High Stands.

Note.—Packing Boxes for Globes from 30 cts. to \$1.50 each.

12 inch Terrestrial Globe, handsome bronze pedestal stand with quadrant.	\$20.00
12 inch Celestial Globe, 8 2/3, or, per pair.	39.00
18 inch Terrestrial Globe, bronze stand, with compass and quadrant.	50.00
18 inch Celestial Globe, bronze stand, 8 2/3, or, per pair.	98.00
18 inch Blackboard Drawing Globe, bronze pedestal stand.	21.00

II. Globes with Low Stands.

Note.—Packing Boxes for Globes from 30 cts. to \$1.50.

12 inch Terrestrial Globe, handsome bronze stand, with quadrant.	14.00
12 inch Celestial Globe, do. do.	\$14. or, per pair. 27.00

18 inch Terrestrial Globe, bronze stand, with quadrant.	\$38. or, per pair. 74.00
18 inch Celestial Globe, do. do.	74.00
30 inch Terrestrial Globe, walnut stand, with quadrant.	65.00

III. Various Globes.

Note.—Packing Boxes for Globes from 30 cts. to 50 cts. each.

6 inch Globe, walnut stand.	\$1.50
6 inch semi-frame Globe, metal stand.	2.00
6 inch Globe, on moveable stand.	2.00
Solar Telluric Globe.	7.00
3 inch Hemisphere Globe.	0.75
Key to the use of Globes.	1.00
Key to the use of Globes.	0.75

V. NATURAL HISTORY—CHARTS, CABINETS, OBJECT LESSONS, &c.

1. Physiology, &c.

Marshall's Anatomical and Physiological Diagrams, set of nine.	\$35.00
Johnston's Anatomical and Physiological Charts, set of two.	5.00
Hawkins' Comparative View of the Human and Animal Frame, Atlas form.	1.95
Griffin's Dietaries (Ingredients used as food), set of two.	2.38
Roth's Gymnastic Exercises without Apparatus, on Chart.	1.00

2. Zoology.

Patterson's Zoological Diagrams, set of ten.	\$20.00
Patterson's Illustrations of Zoology, set of two.	1.15
Hawkins' Extinct Animals, set of six.	12.00
Reynolds' set of Four Zoological Diagrams on one Chart.	3.50
Reynolds' Zoological Map of the World.	2.00
Reynolds' Ethnological Diagrams, (Varieties of the Human Race).	3.20
Varty's Animal Kingdom at one View, Four Charts.	6.00
Macdonald's Empire of Nature, with Key.	1.38
Christian K. Soc. Comparative Sizes of Animals, coloured.	2.50
Christian K. Soc. Orders and Families of Fishes.	1.50
Christian K. Soc. Orders and Families of Insects.	1.50
Darton's Comparative Sizes of Animals, coloured, each.	1.00

Cabinets for Object Teaching and School Museums.

Case showing Bess with section of Honey Comb.	\$1.00
Case showing Silkworm, Cocoon, Silk, &c.	2.00
Typical case of Canadian Birds, for teaching Ornithology, from \$12 to	30.00
Stuffed Birds, illustrative of the separate orders, from \$1.50 each to	3.00
Case containing Birds, illustrating External Anatomy, \$1.50 to	3.00
Valuable Object Lessons on zoology.	5.50
Collection of 20 shells, illustrating Conchology.	0.80

Object Lessons on Sheets and Mounted.

Natural History Object Lessons, small print, set of 210, plain in sheets.	\$4.20
84.20, mounted on card board \$31.00, on stretchers.	84.00
Natural History Object Lessons, set of 210, coloured, in sheets, 88.40,	
mounted on card board, \$35.00, mounted on canvas stretchers.	50.00
Natural History, set of 18, large print, coloured, in sheets \$1, mounted	
on card board \$1.50, on stretchers.	6.00
Scripture Natural History, set of 24, large print, coloured, in sheets	
\$1.50, mounted on card board, \$5.50, mounted on stretchers.	7.00
Natural History, coloured, with Alphabet and easy Reading, set of 15	
on card board.	5.50

3. Botany.

Reynolds' Set of Six Botanical Diagrams on one Chart.	\$3.75
Reynolds' Botanical Map of the World.	2.00
Johnston's Botanical Charts, set of four, with hand books.	10.00
Christian K. Soc's Botanical Diagrams, 20 sheets, with key.	1.25
Christian K. Soc's Poisonous Plants, set of 44 sheets.	1.10
Christian K. Soc's Forest Trees, 12 sheets, \$1, mounted on card board.	3.00
Pratt's Wild Flowers, set of 96 sheets, coloured, \$3.75, on stretchers.	20.00

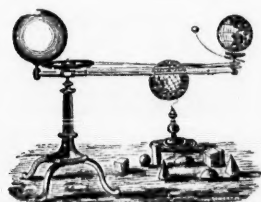
4. Geology and Mineralogy.

Johnston's Geological Map of Europe.	\$15.00
Smith's Geological Map of British Isles.	4.50
Logan's Geological Map of Canada.	20.00
Reynolds' set of three Geological Diagrams, large size, coloured.	6.00
Reynolds' Geological Chart, uses in the Arts, &c.	1.40
Reynolds' Geological and Volcanic Map.	2.00
Reynolds' Geological Section of the Earth's Crust.	2.00
Cabinet of Minerals and Metals, from \$2 to	10.00
Collection of Minerals and their uses, 50 cts. to	1.30
Collection of Minerals in every day use, with glass shade, 85 to	10.00
Collection of nine Minerals and their uses, from 75 cts. to	1.75
Collection of Minerals for testing hardness.	3.75
Cabinet of Geological Specimens, from 75 cts. to	10.00

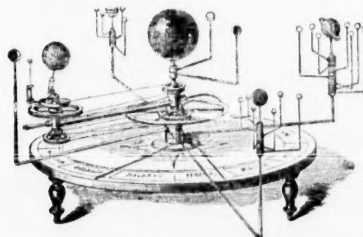
VII PHILOSOPHICAL DIAGRAMS, CHARTS, &c.

Johnston's Philosophical Charts, on Rotary Stand, same as Fig. 6, containing (1) Properties of Bodies; (2) Mechanical Powers; (3) Hydrostatics; (4) Pneumatics; (5) Optics; (6) Physiology; (7) Steam Engines. Price of the seven, with hand books.	\$27.50
Johnston's Philosophical Charts, same as above, mounted on canvas and rollers, with hand books, each.	2.50
Johnston's Metric System, 3 feet by 4 feet 2 inches.	4.00
Dr. F. G. Johnston's Philosophical Charts—a series of ten large Charts, with key. (1) Laws of Motion; (2) Mechanical Powers; (3) Pneumatics; (4) Hydrostatics; (5) Optics; (6) Optics; (7) Steam Engines; (8) Astronomy; (9) Optics; (10) Magnetism, &c.	20.00
Chambers' Scientific Charts of Natural Philosophy (1) Matter and Motion; (2) Mechanics; (3) Mechanics. On rollers, each.	1.00
Mabru's French Lithographs of Steam Engine, Locomotive, Water Wheels, Hydraulic Press, Hydraulics, &c., beautifully coloured, each.	4.50
Gas Works, 6 feet by 3 feet, coloured, canvas and rollers.	1.38
Glass House—about 4 ft. by 3 ft., finely coloured—on canvas, &c.	1.00
Iron Furnace—about 4 feet by 3 feet, finely coloured—on canvas.	80.55
Gas Works, as above—mounted on linen, without rollers.	1.20
Reynolds' Philosophical Diagrams—(1) Matter and Motion; (2) Mechanical Powers; (3) Hydrostatics; (4) Pneumatics; (5) Optics; (6) Optics; (7) Electricity; (8) Magnetism. Per set.	11.00
Reynolds' Diagrams of Machinery, &c.; (1) Electric Telegraph; (2) Manufacture of Iron; (3) Manufacture of Coal Gas; (4) Paper Making Machine; (5) Printing Machine; (6) Fire Engine; (7) Threshing Machine; (8) Flour Mill; (9) Principle of the Watch; (10) Mechanism of the Clock; (11) Distilling; (12) Gas Meter; (13) Barometer and its uses; (14) Steam Engines, &c., on canvas, rollers, and varnished—each.	1.50
Brown's Geometrical Diagrams on Chart.	1.50
Reynolds' Set of Four Geometrical Diagrams on one Chart.	2.75
Chambers' Geometrical Diagrams on Chart.	1.30
Chambers' Euclid's Propositions, set of 20 large sheets.	1.00
Simpson's Diagram, showing Harmony of Colour.	1.50
Simpson's Diagram on the Harmonious Relations of Colour.	0.20

VII ASTRONOMICAL APPARATUS, CHARTS, &c.



TELLURIAN GLOBE, GEOMETRICAL FORMS, ETC. FIG. 11.



ORRERY OR PLANETARIUM, LOW STAND. FIG. 12.

Cathode School Planetarium. Price, high stand, \$16; low stand, \$12.50	
Swain's Planetarium. Price, \$16.50, and \$12.50	
Improved Celestial Sphere, with 6 inch central Globe	5.00
Tellurian for illustrating the relations of the Sun, Moon and Earth to each other. Price \$8 and \$12	
Mattison's Astronomical Maps, or Celestial Charts. Size of Maps, 3 feet by 45 feet. Per set of 16, mounted on rollers, price \$16; mounted on canvas and rollers, \$20	
Smith's set of four Astronomical Diagrams—mounted on one Chart. 3.50	
Drew's Astronomical Charts, 12 Diagrams—mounted. 24.00	
C. K. Soc's Astronomical Figures. Atlas form. 1.50	
Reynolds set of six Astronomical Diagrams on one Chart. 4.00	

VIII. PNEUMATICS.

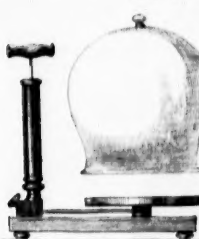


FIG. 13.

AIR PUMP AND BELL GLASS.



FIG. 14.

ELECTRICAL SPIRAL TUBE.

Air Pump, No. 1; barrel 7 1/2 by 2 inches; plate 8 inches; on walnut stand, well finished. Without bell glass, on walnut stand, 12 1/2 by 13 1/2 inches; on glass stand, plate 6 inches. Without bell glass. 12.50	
Suvelled Bell Glasses, Open Top Bell Glasses, and Bell Glasses with screw caps to receive a stopcock, &c., from one to four gallons various prices.	
Hemispherical Cups, with stop-cock, handles and stand. 6.00	
Stand, Lever and Fulcrum; used with Hemispherical Cups. 5.40	
Freezing Apparatus for Air Pump, bell glass and pan for acid. 4.40	
Revolving Jet, for condensing Air Fountain, \$1.20 and \$2.20	
Guinea and Feather Apparatus, with receiver, \$8.40 and \$12.00	
Sliding Rod, with Packing Screw, for experiments with Air Pump. 2.20	
Cartesian Bottle Imp, with Glass Jar. 1.40	
Baculus Experiment, for transfer of liquids under Air Pump. 0.40	
Standard Wheel, Aneroid and other Barometers, from \$8.50 to \$72.00	

A list of additional Pneumatic Apparatus will be sent on application.

IX. ELECTRICITY.

Electrical Machines; plate 30 inches; prime conductor 36 by 5 inches, mahogany, base 5 1/2 inches by 3 feet. \$105.00	
Electrical Machine; plate 12 inches; prime conductor 12 by 3 inches, walnut base. 18.00	
Spiral Spotted Tube with Brass Ends, \$6.50 and \$8.00	
Spiral Spotted Tubes, set of six, with centre insulated pillar, and revolving discharger, mounted on mahogany stand. 24.00	
Insulating Steel, without top, with four glass legs. 2.75	
Electrical Orrey or Tellurian, \$1.50 and \$3.00	
Electrical Inclined Plane, mounted on insulated stand. 3.40	
Aurora Borealis Apparatus. 2.10	
Thunder House, illustrating the Lightning Rod, \$1 to \$6.00	
Electrical Gas Pistol with Brass Barrel. 1.20	
Universal Electrical Discharger, with insulated stand. 4.50	
Jointed Dischargers, from \$2.25 to \$3.75	
Diamond or Luminous Jars. 3.75	
Electrical Sportman, Leyden Jars, Insulated Stands, Electrometers, Tin Foil, Dutch Gold, Amalgam and other Electrical Apparatus at various prices.	

X. MAGNETISM, GALVANISM, &c.



FIG. 15.

Morse's Telegraph clock work, key and paper bell. 845.00	
English Telegraph Model, with signs, \$5.40 and \$3.60	
A Reverser, for use with the Electric Telegraph Model, and other galvanic experiments. 5.40	
Double Beam Axial Engine. 20.00	
Daniells, Smee's, Grove's, and Charcoal Batteries, at various prices.	
Apparatus for the decomposition of water, \$3 to \$6.00	
Electro-Magnetic Machines, each, \$6.80, \$7.50 and \$9.50	
Crooke's Electro-Magnetic Needle. 2.50	
Electro-Magnets and Keepers—various prices.	
Electro-Magnetic Coils, in boxes, complete—various prices.	
Illustrative Magnets, with Armatures—various prices.	
Collection of objects to illustrate Magnetism. 2.50	
Magnetic Toys—ships, fish, swan, &c., in boxes—various prices.	

An additional list sent on application.

XI. CHEMICAL LABORATORIES, GLASS-WARE, &c.

1. Chemical Diagrams.

Reynolds set of Six Chemical Diagrams, on one Chart. 84.00	
Younan's Chemical Chart and Book. 6.00	

2. Griffin's Chemical Laboratories.

Chemical Laboratories, in Portable Cabinets, containing Apparatus and Preparations for a course of Elementary Experiments. Packed by the publishers, and sold unopened. Price, \$3.84.50, \$8.81, \$12.50 and \$15 each.

3. Statham's Chemical Cabinets.

Similar to the foregoing (Negretti and Zamboni's). Packed by the publishers, and sold unopened. Prices, \$3.50, \$8.81, \$12, and \$14 each.

4. Chemical Glassware, &c.

Hydrogen Balloons of gold beater's skin, from \$1.00 to \$8.00	
India Rubber Gas Bags, with stop-cocks, from 4.00 to 1.00	
Plain and Tubulated Retorts, from 25 cts. to 1.00	
Pneumatic Troughs, Glass Funnels, Gas Jars, Spirit Lamps, Woulff's Bottles, Test Tubes, Test Tube Stands, Retort Stands, Funnel Holders, Blow-pipes, Glass Tubing, Boiling Flasks, Pipettes, Altimeters, Connecting Tubes, India Rubber Tubing, &c., including all the necessary glassware for Chemical experiments, at various prices.	

Laboratories for Agricultural and Experimental Chemistry, containing all the necessary Apparatus for performing the experiments referred to in the authorized Text Books, can be put up at the Depository, to suit the size and requirements of class. Various prices.

XII. STEAM AND HEAT.

Sectional Model of Steam Engines, from \$13 to \$38.00	
Working Models of Steam Engines, with Spirit Lamp, \$1.30 to 5.00	
Working Model of Locomotive, with Spirit Lamp. 12.00	
Various Steam Engines, with Fuel. 0.50	

Diagrams of Steam Engines, see Philosophical Diagrams (No. VI).

Pyrometers, Conductometers, Thermometers, &c., at various prices.

XIII. HYDROSTATICS AND HYDRAULICS.

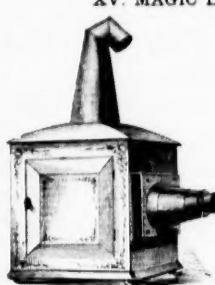
Models of Forcing and Lifting Pumps, various prices.	
Models of Water Wheels, overshot, &c. \$10.00	
Archimedes Screw Pump, with Stand. 5.00	
Centrifugal Pumps, Hero's Fountain, Barker's Mill, &c., at various prices.	

The brass gear Tellurian, manufactured under the direction of the Education Department, is made to receive by means of a set of brass wheels, which is not so liable to get out of order as the instrument with the steel.

XIV. MECHANICS.

Mechanical Powers, with weights, pulleys, &c., \$6, \$6, \$17, and \$28.50	
Bent Lever, with weights and description. 1.50	
Train of Spur Wheels, complete. 6.00	
Inertia Apparatus, with ball. 0.60	
Centre of Gravity Apparatus, per set. 1.20	
Centrifugal Machine, with apparatus for illustrations. 9.75	
Collision Balls, complete. 3.50	
Working Model of the Screw. 1.25	
Working Model of a Lock with Key. 1.80	

XV. MAGIC LANTERNS, &c.



MAGIC LANTERN, FIG. 16.

No. 1. Dissolving View Apparatus, including two Phantasmagoria Lanterns with 3 1/2 inch improved condensing lenses, brass fronts and dissolver, in box which is used as a stand, also Oxycalcium Light Apparatus, consisting of Fountain Spirit Lamp, India Rubber Gas bag, Pressure Boards, re-rot and purifier for making the Gas, flexible tubing and box of lime cylinders. Price, \$85.	
No. 2. Dissolving View Apparatus, including two Phantasmagoria Lanterns and Brass dissolver, same as No. 1, with Fountain or Solar Lamp for oil, instead of the Gas Apparatus. Price, \$50.	
No. 3. Phantasmagoria Lantern, (single) same as Nos. 1 and 2, with Oxycalcium Light Apparatus, \$50.	
No. 4. Phantasmagoria Lantern, with pair of 3 1/2 inch improved condensing lenses, brass front and Fountain or Solar Lamp, \$17.50.	
No. 5. Phantasmagoria Lantern, with pair of 3 inch condensing lenses, brass front, and best Fountain Lamp, \$13.50.	
No. 6. Phantasmagoria Lantern, with pair of 3 inch condensing lenses, brass front, and Tin Argand Lamp, \$12.50.	
No. 7. Magic Lantern, with 3 1/2 inch lenses, brass front, and Tin Argand Lamp, \$11.50.	
No. 8. Magic Lantern, 3 inch lenses, brass front, and Tin Argand Lamp, with box of 12 long amusing slides, \$12.50.	
No. 9. Magic Lantern, 3 inch lenses and brass sliding front, with box of 12 long amusing slides, \$9.	
No. 10. Magic Lantern, 2 1/2 inch lenses and brass sliding front, with box of 12 long amusing slides, \$7.	
No. 11. Magic Lantern, 2 inch lenses and brass sliding front, with box of 12 long amusing slides, \$5.	

Magic Lantern Slides.

- Fourteen inch Astronomical Diagrams, on slides, showing the position, size and principal phenomena of the solar system, suitable for lanterns 1 to 7, per box, from \$10 to \$27.
- 12-inch Astronomical slides, suitable for lanterns 5 to 7, \$8.
- 14-inch Natural History, for lanterns 1 to 7, per box, \$8 to \$12.
- 12-inch Natural History, for lanterns 5 to 7, per box, \$5.50 to \$9.
- Scripture Pictures, beautifully colored, suitable for lanterns 1 to 7, from \$2.50 to \$4.75.
- Paintings of celebrated buildings, English views, Ruins and Abbeys, India, China, Arctic Regions, Russian War, Holy Land, Egypt, Missionary Scenes, Natural Phenomena, &c., suitable for lanterns 1 to 7, from \$1.50 to \$2.50.
- Photographs of Scripture History, Statuary, Celebrated places, Natural Phenomena, Geology, Hogarth's Pictures, &c., plain, \$1.50 to \$2 each; beautifully colored, suitable for lanterns 1 to 7, from \$2.50 to \$4.75 each.
- Views with moving shipping, suitable for lanterns 1 to 7, \$2.25 to \$3 each.
- Panoramic views, (new style) suitable for lanterns 1 to 7, \$3.75 each.
- Drunkard's Progress, [Cruikshank's] set of 8 slides, for lanterns 1 to 7, \$12 to \$22 per set.
- Lever and Rackwork, slides for lanterns 1 to 7, \$1.75 to \$2.50 each.
- Pilgrim's Progress, set of 12 pictures, for lanterns 1 to 7, \$10 to \$20.
- Chromotypes, or artificial fire works, suitable for lanterns 1 to 7, \$2.50 to \$3.75 each.
- War in Abyssinia, set of 12 slides, for lanterns 1 to 7, \$17.
- Life of Joseph, set of 12 slides, for lanterns 1 to 7, \$17.
- Robinson Crusoe, set of 6 slides, suitable for lanterns 1 to 7, \$6 to \$10.
- Amusing slides, set of 12 in a box, for lanterns 1 to 7, \$4 to \$10.
- Pusey's Road to Ruin, set of four, for lanterns 1 to 7, \$4.50.
- Movable comic and other slides, for lanterns 1 to 7, \$5c. to \$1.
- Zoological slides, set of 12, suitable for lantern No. 8, price \$3.00 to \$5.
- Amusing slides, set of 12, suitable for lantern No. 8, \$1 to \$2.25.

XVI. MICROSCOPES, TELESCOPES, &c.

Compound School Microscope, on firm tripod stand, with two object glasses, &c., in upright polished cabinet with drawer, from \$14 to \$50.00	
Compound Microscope, in mahogany box, from \$2.40 to \$6.00	
Simple Microscope, with rack movement, mirror, three powers, two lenses, glass slides, and two objects, in mahogany case. 3.50	
Best Preparations, mounted in Balsam or fluid, various prices.	
Neatly mounted objects for beginners, on slides, (assorted insects, vegetable and other preparations). From 60c. per dozen.	
Astronomical Telescopes, mounted on brass tripod stand, packed in Mahogany case. Various prices.	
Achromatic Telescopes, with two or three drawers. Various prices.	
Models of the Human Eye, in three parts, viz: (1) The Eyeball dissected, with stand; (2) The Muscles of the Eye; (3) The cause of Long, Short, and Imperfect sight. 14.50	
Set of Seven Mirrors, mounted to resemble the seven prismatic colours, and recompose white light. 11.50	

XVII. TABLET READING LESSONS, &c.

Tablet Reading Lessons (1st Book), sheets, 75 cts., mounted on card-board (both sides), \$2, ditto varnished \$4, mounted on card-board (one side) varnished. 86.00	
Geographical Lesson Sheets to accompany maps, 50 cts., mounted on card-board, varnished. 3.50	
C. K. Soc's Scripture Manners and Customs, large print, set of 30 sheets, \$1.50, mounted on card-board \$6.50, mounted on stretchers. 8.00	
C. K. Soc's Scripture History, large print, set of 23 sheets, \$1.20, mounted on card-board \$5.50, mounted on stretchers. 7.00	
C. K. Soc's Scripture Sites, large print, set of 12 sheets 70 cts., mounted on card-board \$3, mounted on stretchers. 4.00	
C. K. Soc's Scripture Sites, small print, set of 30 sheets, \$1.13, mounted on card-board \$5.50, mounted on stretchers. 7.00	
C. K. Soc's Hymns for Children, 6 sheets. 0.30	
Ten Commandments, large size, mounted on canvas and rollers. 0.50	
Time Table, mounted on card-board. 0.25	
Limit Table, mounted on card-board. 0.30	
Programme of Studies, mounted on card-board. 0.30	
Duties of Pupils and Teachers, mounted on card-board. 0.30	
Set of 20 Educational Lesson Sheets, large print, \$1, or mounted on card-board, each. 0.30	
Honor Roll for Public Schools. 0.75	
Honor Roll for High Schools. 0.75	
Flat Blackboard, 18 inch. 0.45	
Blackboard Pointers, 10 cts., 13 cts. and 15 cts. 0.15	
Geometrical Forms and Solids, per box. 2.00	
Numerical Frames, each. 0.75	

Articles on which the 100 per cent. is not allowed.

Non-evaporating Metal Ink Walls, per dozen. 3.00	
Metal Ink Walls with iron covers, to screw on desk, per dozen. 1.50	
Liquid Slating for Blackboards, can be used on paper, wood, or plaster, per quart can. 1.50	
Chalk Crayons, white and coloured, at various prices.	

NOTE. Packing Boxes for Apparatus, &c., from 40 cts. to 75 cts. each.

X This set contains Tablets
Tests, Mother, &c. from 25